

Faculty of Transportation Engineering and Vehicle Enginee

1. Subject name **Construction of logistics machinery** 2. Subject name Logisztikai gépek tervezése in Hungarian BMEKOALM324 4. Evaluation type exam grade 5. Credits 3 3. Code 6. Weekly contact 2 (9) Lecture 1 (5) Practice 0 (0) Lab hours 7. Curriculum Logistics 8. Role Specialization (sp) at Logistics Engineering MSc (L) **Engineering MSc** (L) 9. Working hours for fulfilling the requirements of the subject 90 9 **Contact hours** 42 **Preparation for** 8 **Homework** seminars **Reading written** 10 **Midterm** 6 Exam preparation 15 materials preparation **10. Department Department of Material Handling and Logistics Systems** 11. Responsible Dr. Bohács Gábor lecturer Odonics Boglárka, Győrváry Zsolt **12. Lecturers 13. Prerequisites**

14. Description of lectures

Crane installation analysis. Crane automation tasks, technical system engineering issues. Forklift operation features, construction and stability issues. Work cycles of storage and retrieval machines, dimensioning questions. Overhead monorail systems operating characteristics. Constructional guestions for lifting tables. Operational characteristics of roller conveyors. Conveyors drive power requirements. Operational characteristics of belt conveyor, screw conveyors, bucket elevators, swing and vibrational material handling machines.

15. Description of practices

During the practices examples related to the learnt machines and systems are presented and discussed.

16. Description of labortory practices

17. Learning outcomes

A. Knowledge

- · Knowledge of equipment that makes up logistics systems.
- Knowledge of equipment design relationships.
- B. Skills
 - Ability to apply the above knowledge and related professional knowledge in the design of new equipment /
 - components.
- C. Attitudes

• Strives to provide with the best knowledge and skills to work with the instructors.

D. Autonomy and Responsibility

• In the use of the acquired knowledge the student carries out independent, responsible engineering work.

18. Requirements, way to determine a grade (obtain a signature)

The requirement of the signature is to fulfill the homework and one midterm test. The homework (30%), the test (20%) and the exam result (50%) are included in the final grade.

19. Opportunity for repeat/retake and delayed completion

The homework's final submission and the midterm test can both be resubmitted once each.

20. Learning materials

Students can download the subject notes in pdf format via Moodle.

Effective date	10 October 2019	This Subject Datasheet is valid for	Inactive courses
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